JEDMED Horus Scope Camera Handle and Charging Cradle

Quick Setup and User Guide
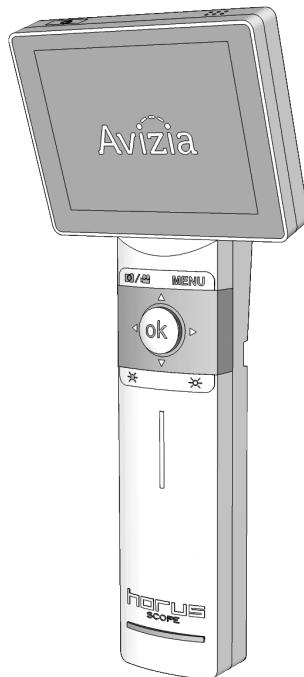
Table of Contents

Symbols, Warnings and Precautions

Symbols

⚠ Attention. Read user's manual for cautions and instructions for use.

🧍 Type BF - Indicates this is a product with Type BF applied parts.

📖 Operating instructions for use.

〰 Date of manufacturer.

Warnings and Cautions

PLEASE NOTE: Prior to installation and start-up of the unit, carefully read the instructions provided here in. As with all technical devices, the proper function and safe operation of this unit depends on the user's compliance with the safety recommendations which are presented in these operating instructions.

⚠ Always use the Horus Scope in accordance with the directions and recommendations contained in this user's manual.

⚠ To prevent fire or electrical shock, do not expose this appliance to rain or moisture.

⚠ This unit is not waterproof. If the optical lens and the control unit get wet, do not attempt to dry with a heater, microwave, autoclave or UV light.

⚠ Avoid subjecting the Horus Scope to vibration or shock. When the product is not in use, please disconnect the power plug and keep it in a safe place.

⚠ Avoid using the Horus Scope in a dusty environment.

⚠ Keep the power cord away from any heat source.

⚠ The eye cannot be exposed to the illumination light of system at operation.

⚠ Before operation, please make sure the device does not appear damaged or broken. If there are breaks in the device cover or other visual defects, please contact Avizia.

⚠ Please do not recharge the battery when Horus Scope is operated by the user. Only use Li-ion Battery 3.7V / 2600mAh which shall be provided by Avizia.

⚠ Any memory card used in the Horus Scope must be formatted to FAT 32.

⚠ Replace the disposable specula of Horus Scope Digital Otoscope before each use.

⚠ Be sure to maintain a safe distance between the speculum of the Horus Scope and the tympanic membrane.

User Interface

Intended Use

The Avizia JEDMED Horus Scope Camera Handle is a digital hand-held camera used to record digital photographs and video of the human body.

The Charging Station charges the Horus Scope's battery with a mini USB cable.

The optional* interchangeable scope attachments allow for multi-disciplined telemedicine use.

POWER BUTTON
(20-30 seconds for startup)

MICROPHONE

LCD MONITOR

PICTURE/VIDEO MODE
(switching time about 5 seconds)

MENU

OK
NAVIGATION,
CAPTURE, ENTER

REDUCE LIGHT LEVEL
(ZOOM OUT ON
RECORDED IMAGES)

INCREASE LIGHT LEVEL
(ZOOM IN ON
RECORDED IMAGES)

POWER INDICATOR

SCOPE CONNECTOR
INTERFACE

MICRO SD
MEMORY SLOT

FOCUS
WHEEL

BATTERY
COVER

STRAP HOOK

MINI USB PORT

AV OUT (3.5MM)

OTOSCOPE*   DERMSCOPE*   FUNDUS OPHTHALMO-   GENERAL VIEWING
                                        SCOPE LENS*   SCOPE*

Operation

Power indicator

The POWER INDICATOR light will inform you of approximately how much battery charge is left on the device.

Blue colored light   Battery is more than 25% full when the unit is ON or in STANDBY

Orange colored light   Battery is less than 100% full when the unit is OFF and connected to the charger or computer.

No light   Unit is OFF and not connected to the charger or computer.
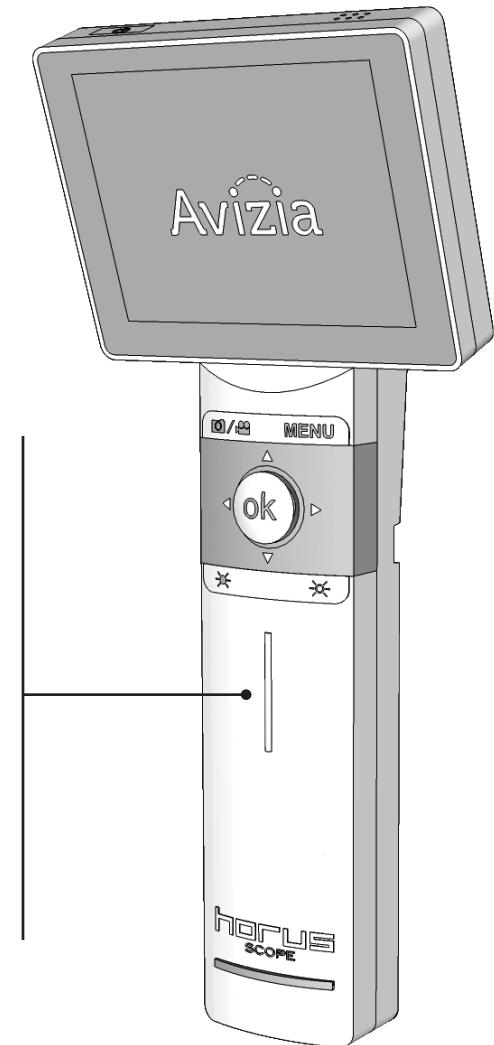
Operation

## Installing or replacing the battery

1. Pry open the battery cover from the bottom of the scope.

2. Remove the battery cover by lifting up.

3. Insert the battery. Ensure the positive (+) tip of the battery is inserted first toward the top of the scope.

    If replacing a battery, remove the original battery and replace with a new battery. Dispose of the spent battery in accordance to local guidelines or take it to a battery recycling center.

4. Replace the battery cover.

Before first use, place the Horus Scope Control Unit on the charging station or connect the adaptor via a USB cable. Connect the USB connector to a power plug or computer. Let the battery charge for at least five hours.v
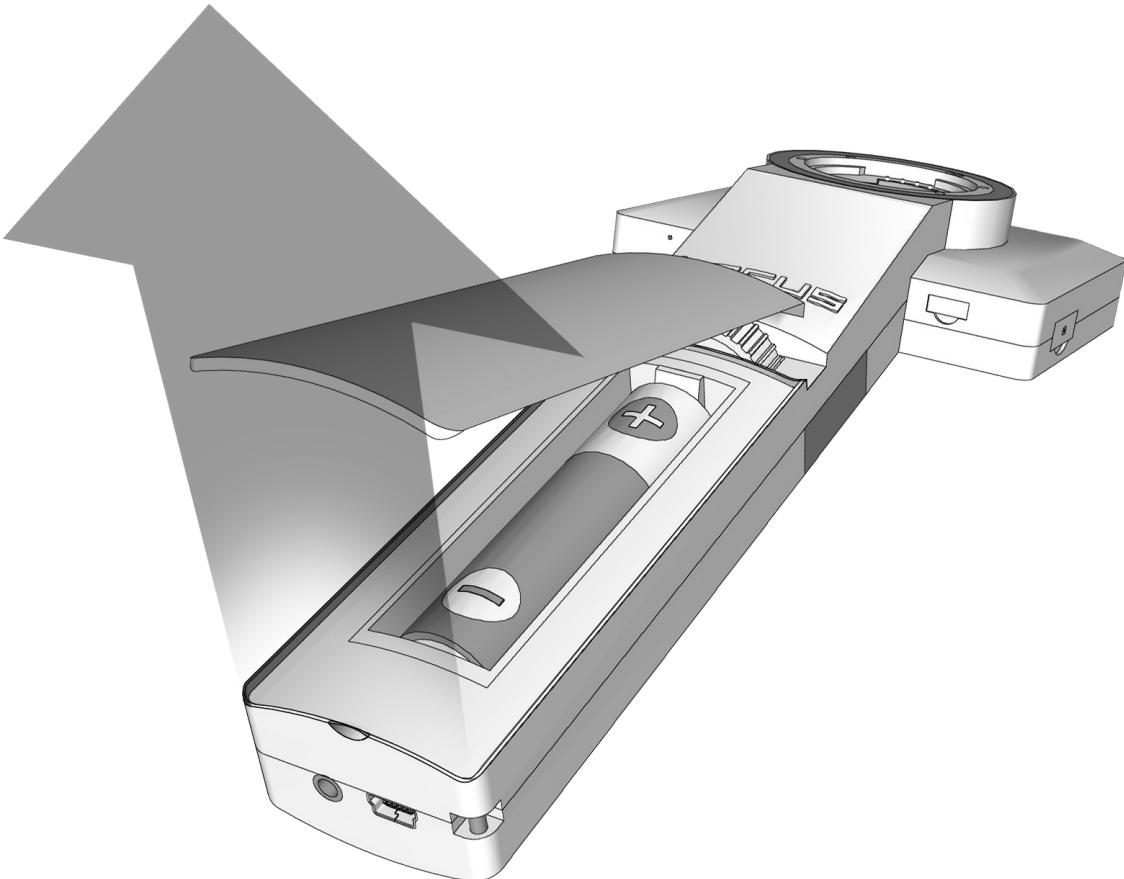
NOTE: To ensure the safety of the product, please contact Avizia if the battery reaches the end of its life.

Operation

Connecting a lens

**SCOPE ASSEMBLY
ALIGNMENT GUIDES**

**SCOPE CONNECTOR
INTERFACE**
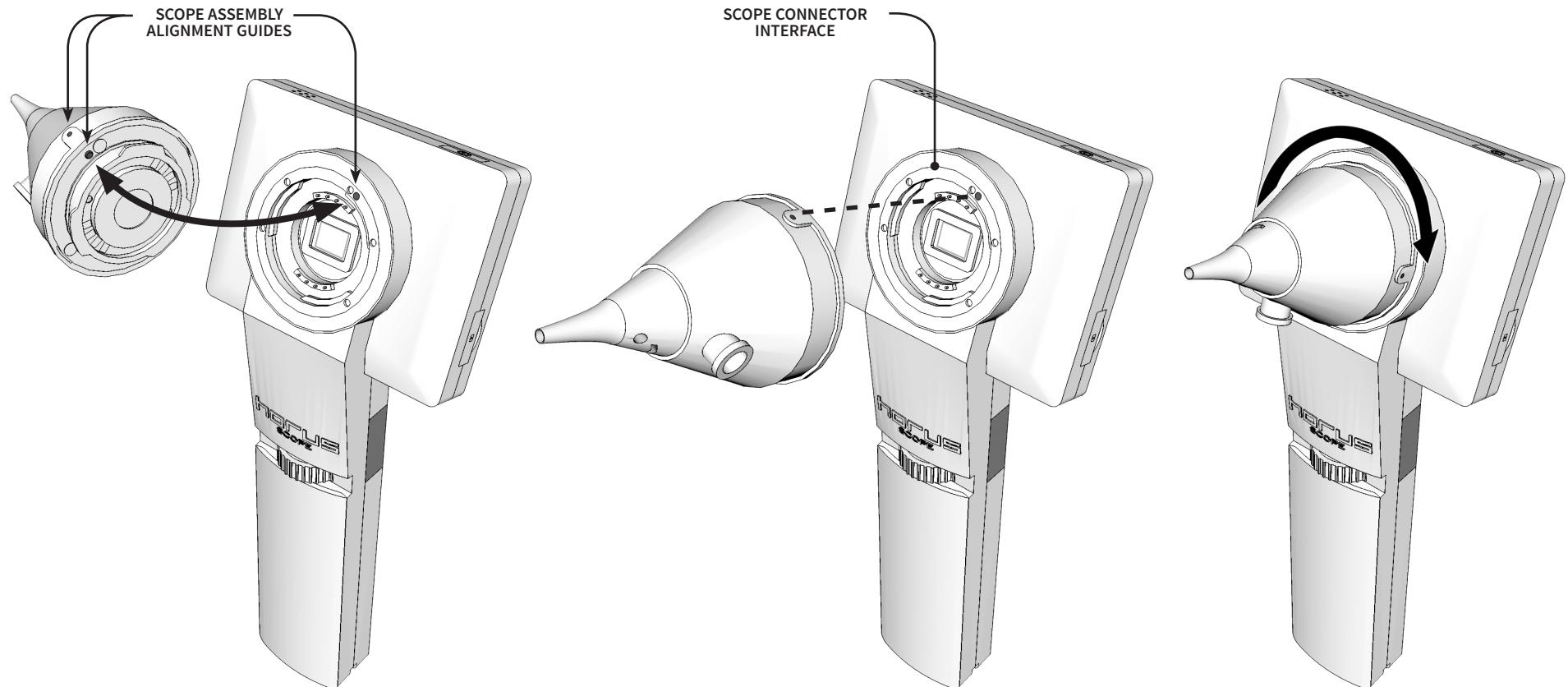
1. Align the scope assembly alignment guides for both the Optical Scope and the Control Unit.

2. Insert the Optical Scope into the scope connector interface of the Control Unit.

3. Rotate the Optical Scope gently, until it stops, to fasten as shown.

Display Navigation

Navigating the Operation Screen

OPTICAL LENS
INDICATOR

GENERAL CAMERA

EYE-FUNDUS CAMERA

DERMASCOPE

OTOSCOPE

BRIGHTNESS INDICATOR

SAV — VIDEO FILE SAVING

RON — VIDEO RECORDING

SD MEMORY FREE SPACE

DISPLAY MODE

VIDEO MODE

PHOTO MODE

5B 2013/12/30 11:34:58 ----M

DATE

TIME

USE THESE BUTTONS TO ADJUST
THE BRIGHTNESS LEVEL
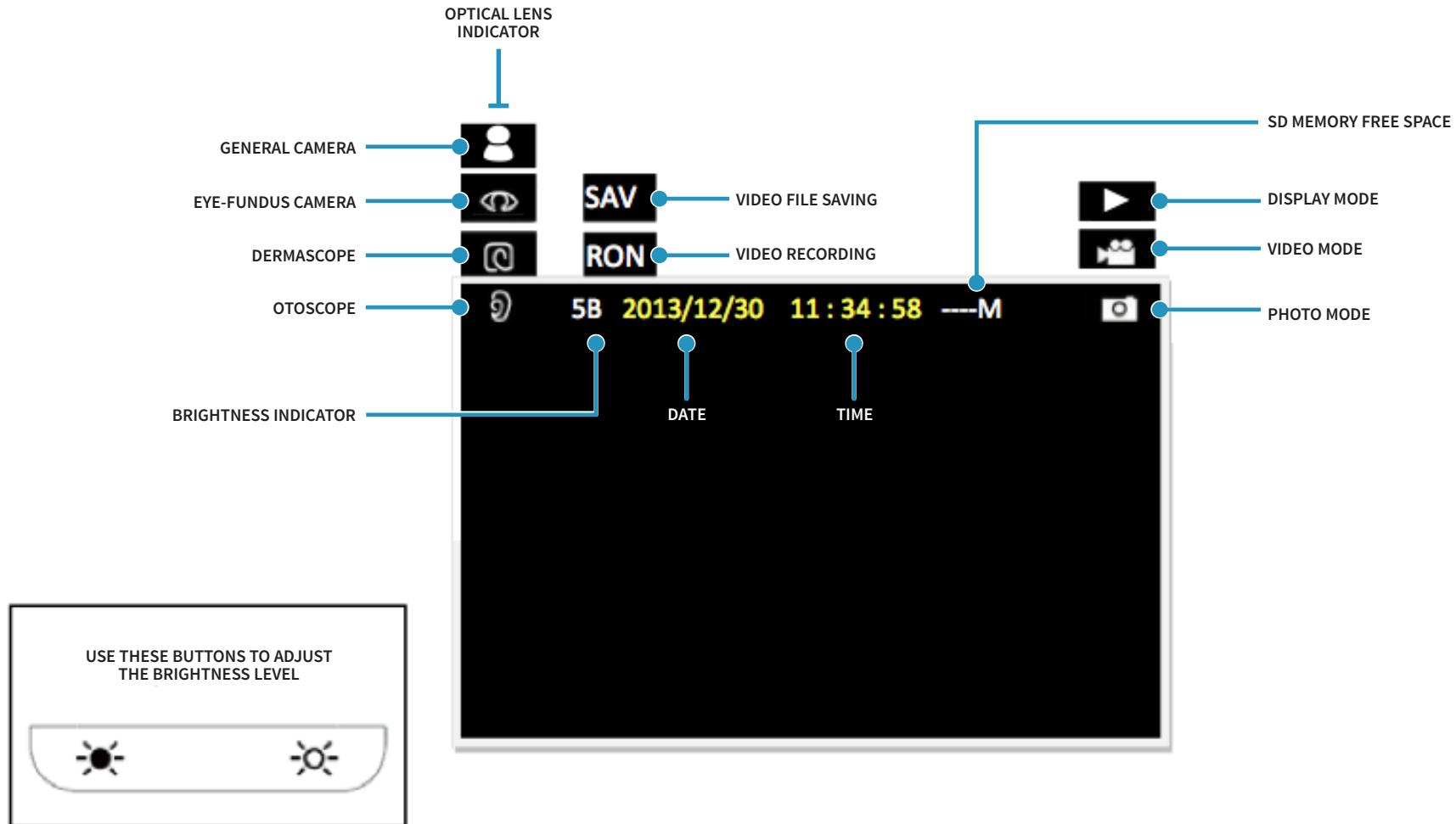
Display Navigation

Navigating the Menu Screen

1. Press "Menu" button and enter to Menu mode.

2. Press $\triangle/\triangledown$ to cycle through the menu options.

3. Press $\triangleleft/\triangleright$ to select the contextual menu items and press "OK" button to confirm the selection.

4. Press "Menu" button again to return to Live Image mode.

    NOTE: If the "Menu" button is pressed while in "Display picture" mode, the option to delete the selected image will appear. Press ▢ /🎥 to return to Live Image mode.

5. The "Menu" screen will return to Live Image mode in 15 seconds if no button is pressed.

Display Navigation

1.
Display picture
YES   NO
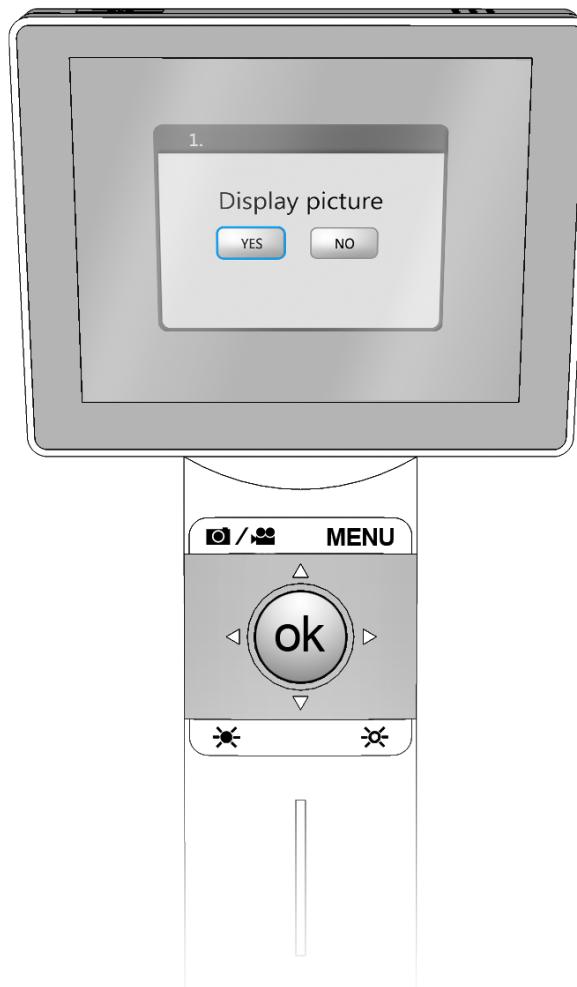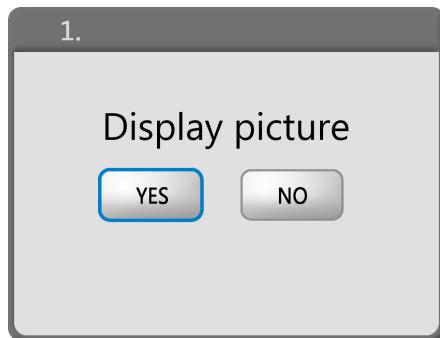
Display picture

Select "YES" to view images. Use ◁ ▷ to select image to view.

NOTE: Video playback is not supported on the device. Transfer the video file (.AVI) to a computer to playback.

Press ⚙ to zoom in on picture and ☀ to return to normal size.

When "zoomed in" press △▽◁ ▷ to see different areas of the picture.

Press ◻ / 🎥 to return to Live Image mode.

2.
Icon display
YES   NO

Icon display

YES: Show icon, date, time

NO: Hide icon, date, time

3.
Date setting
YES   NO
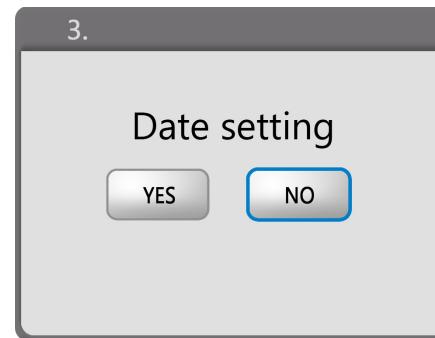
Date setting

Default value: (year-month-day)

◁ ▷ : Select year/month/day

△▽ : Adjust the value

Press "OK" button once to confirm the setting.

4.
Time setting
YES   NO
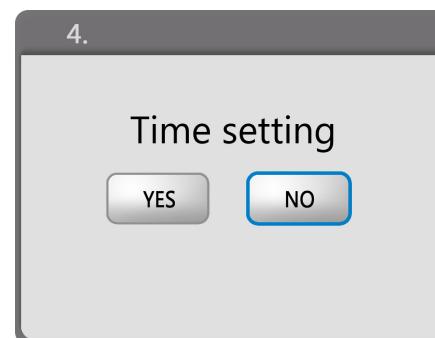
Time setting

Default value: (hour : minute)

◁ ▷ : Select hour/minute

△▽ : Adjust the value

Press "OK" button once to confirm the setting.

Display Navigation

5.

Standby disable

YES   NO
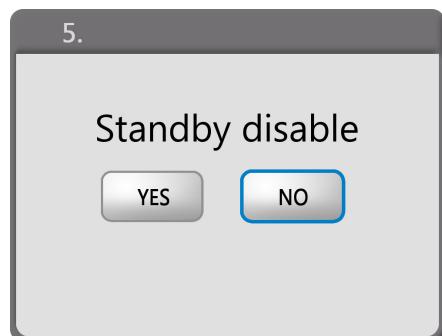
Standby function disable

YES: Disable

NO: Enable

7.

Format SD

YES   NO
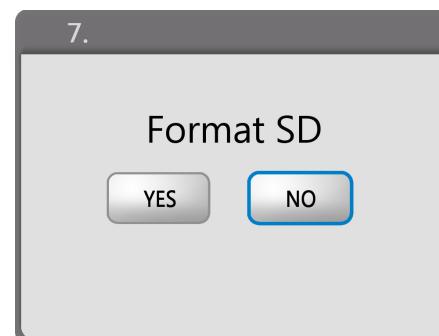
SD card format

NOTE: All information will be deleted after SD card is formatted.

Select "YES" and press "OK" button to format SD card.

LCD monitor turns off while the file is being formatted.

6.

AV out format
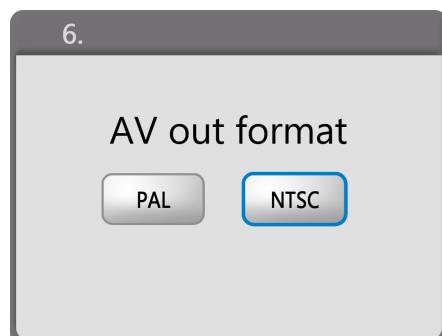
PAL   NTSC

AV output type

PAL

NTSC

8.

Horus FW version
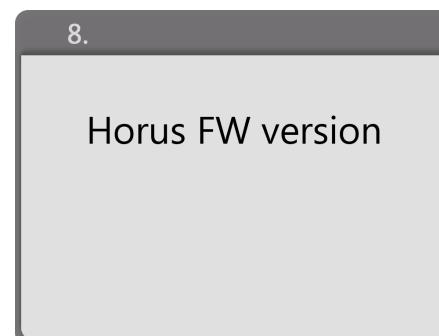
Version of software

Press "OK" to check the version of software.

Display Navigation

9.

IR searching mode

YES   NO
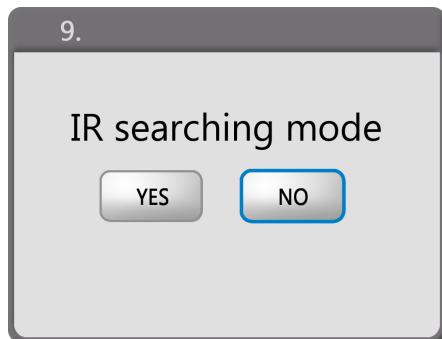
Searching mode section

YES: IR Search / VR Photo

NO: VR Search / VR Photo

Default value:
IR Search / VR Photo

11.

UVC enable

YES   NO
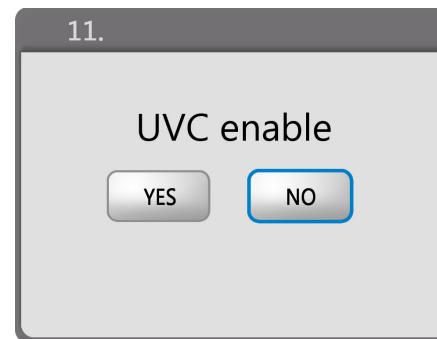
USB live video enable

YES: Enable the USB live video for PC, and disable the removable storage device.

NO: Disable the USB live video for PC, and enable the removable storage device.

Default Value :
NO USB live video disable

Press "OK" button to confirm the setting.

10.

Serial number

YES   NO
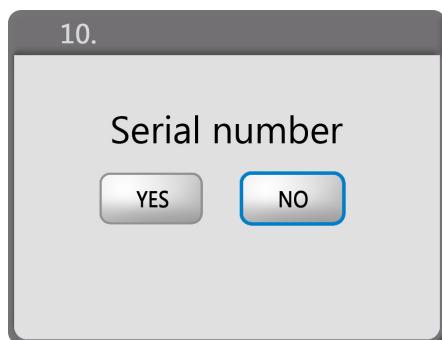
Picture serial number setting

YES: Set picture serial number

NO: Leave as default date/time stamp on pictures

Default Value :
NO Select "YES"

◁ ▷ : Adjust the value

△ ▽ : Adjust value location

Press "OK" button to confirm the setting.

Charging and Data Transfer

Charging the scope

- Place the Horus Scope in the charging station and connect the mini USB cable to the charging station.

- Connect "Connector-1" to computer for recharging only.

- Connect "Connector-1" or "Connector-2" to Power Adaptor for recharging only.

## Transferring data from the scope

- Place the Horus Scope in the charging station and connect the mini USB cable to the charging station.

- Connect "Connector-2" to computer for recharging and data transfer.

Mini USB

Connector-2
(Dual Wires)

Connector-1
(Single Wire)
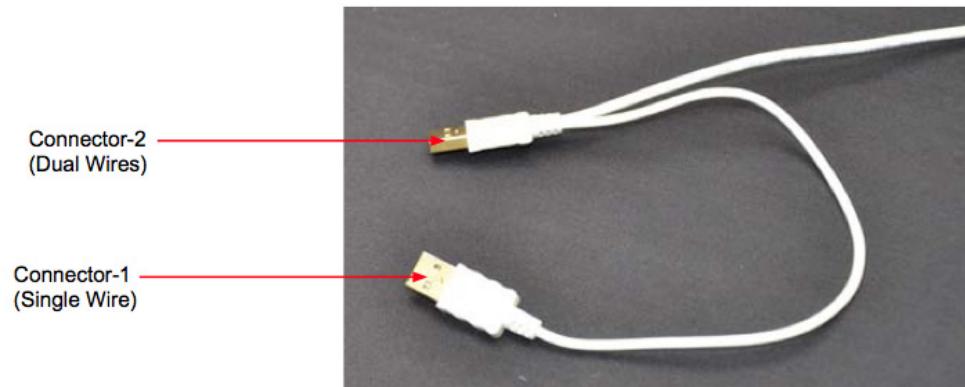
Cleaning and Disinfection

The Horus Scope is a precision photoelectronic instrument that should be handled with specific care. Please note the following cleaning instructions:

- Power off the Horus Scope before cleaning it.

- Disinfect the control unit and charger station with a soft cloth with alcohol. Wait for cleaning liquid to dissolve before powering on and connecting the charger station and USB cable to the control unit.

- It is recommended to clean the optical lens with cleaning cloth or lens cleaning tissue such as THORLAB Inc., (www.thorlabs.com) Lens Cleaning Tissue.

- If the replacement for new disposable speculum or new contact plate is needed, please contact Avizia.

Clean the contact plate before each use for a new patient:

- Disinfect the contact plate with soft cloth moistened with alcohol (70% ethyl alcohol).

NOTE: The Horus Scope is not intended to be sterilized.

Technical Specifications

Operation Environment

- Ambient temperature   0°C to +35°C
- Relative humidity range   10% to 80%
- Atmospheric pressure   700hPa ~ 1060hPa

Storage Environment

- Ambient temperature   -10°C to 40°C
- Relative humidity range   10% to 95%
- NOTE: It is recommended to remove the battery if the Horus Scope is stored more than 2 weeks.

Technical Description

Horus Scope Digital Otoscope

- Focusing range   5~30mm
- Dimension   9 x 9 x 19 cm3
- Weight   325 Grams

Horus Scope Digital Dermascope

- Focusing range   10mm diameters
- Dimension   8 x 9 x 19 cm3
- Weight   370 Grams

Horus Scope Digital General Imaging Scope

- Focusing range   80° (diagonal)
- Dimension   8.5 x 5 x 19 cm3
- Weight   310 Grams

General Specification

- Resolution   1920 x 1080 pixels
- Light Source   Neutral White Light Emitting Diode (LED)
- LCD Monitor   3.5" Full Color TFT-LCD
- Image Format   JPEG (photograph)
                        H.264 (video)
- Interaction Port   Mini USB, phone jack port
- Media Type   Micro SD Memory Card, 2GB
- Power Source   Rechargeable Lithium Battery 3.7V / 2600mAh
- External Power   Source: 100~240 VAC, 50/60 Hz
- Operating time   3 hours at 2.5 Watt condition
- Charging time   5 hours

Liability

JEDMED considers itself responsible for the effects on safety, reliability and performance of this product only if:

- Assembly operations, extensions, re-adjustments, modifications or repairs are carried out by persons authorized.
- The electrical installation of the relevant room complies with the requirements.
- The equipment is to be used in accordance with these instructions for use.

Warranty

JEDMED provides the Horus Scope one year warranty for the parts. Warranty for battery is six months.

The warranty starts at the delivery date.

Natural disasters, man-made damage, lack of reasonable care, disassembly, upgrade, warranty sticker torn off, or any phase-out parts are not included in the warranty.

Standards

Electrical safety:
IEC 60601-1 : 2005 (EN 60601-1 : 2006)

EMC and regulatory compliance:
IEC 60601-1-2 : 2007 (EN 60601-1-2 : 2007)